

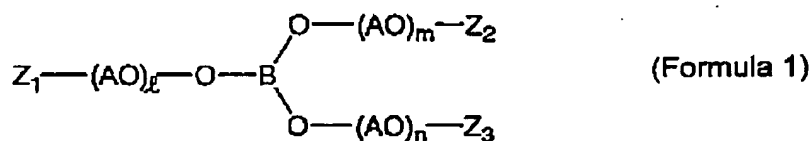
NOV 17 2006

Docket No. 500.43280X00  
Serial No. 10/717,645  
November 17, 2006**AMENDMENTS TO THE CLAIMS:**

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

**LISTING OF CLAIMS:**

1. (Withdrawn) A polymerizable boron-containing compound for electrochemical device represented by (formula 1):



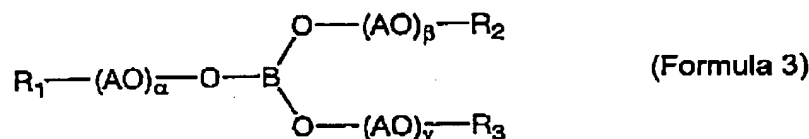
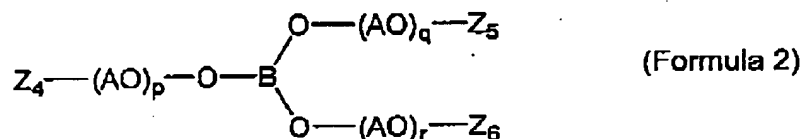
wherein B is a boron atom; Z<sub>1</sub>, Z<sub>2</sub> and Z<sub>3</sub> are independently an organic group having an acryloyl or methacryloyl group, or a hydrocarbon group of 1 to 10 carbon atoms, provided that one or two of Z<sub>1</sub>, Z<sub>2</sub> and Z<sub>3</sub> are organic groups having an acryloyl or methacryloyl group; AOs are independently an oxyalkylene group of 1 to 6 carbon atoms and are of one or more kinds; and  $\ell$ , m and n are independently an average number of moles of the oxyalkylene group(s) added of less than 4 and more than 0, provided that  $\ell + m + n$  is 1 or more.

2. (Withdrawn) An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a boron-containing compound according to claim 1.

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3. (Withdrawn) An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a boron-containing compound according to claim 1 and at least one electrolytic salt.

4. (Original) A polymerizable composition for electrochemical device comprising a boron-containing compound represented by (formula 2) and a boron-containing compound represented by (formula 3) so that the molar ratio between the compound of (formula 2) and the compound of (formula 3) [(the number of moles of the compound of (formula 3))/(the number of moles of the compound of (formula 2))] is 0.1 to 9:

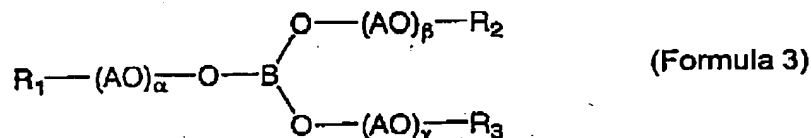
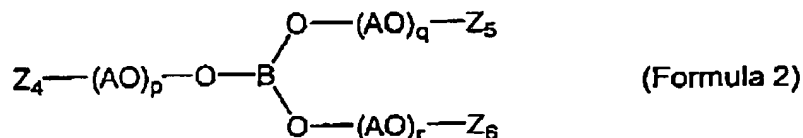


wherein B is a boron atom; Z<sub>4</sub>, Z<sub>5</sub> and Z<sub>6</sub> are independently an organic group having an acryloyl or methacryloyl group, or a hydrocarbon group of 1 to 10 carbon atoms, provided that at least one of Z<sub>4</sub>, Z<sub>5</sub> and Z<sub>6</sub> is an organic group having an acryloyl or methacryloyl group; R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are independently a hydrocarbon group of 1 to 10 carbon atoms; AOs are independently an oxyalkylene group of 1 to 6 carbon atoms and are of one or more kinds; and p, q, r, α, β and γ are independently an average

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number of moles of the oxyalkylene group(s) added of less than 4 and more than 0, provided that each of the sum  $p + q + r$  and the sum  $\alpha + \beta + \gamma$  is 1 or more.

5. (Original) A polymerizable composition for electrochemical device comprising a boron-containing compound represented by (formula 2) and a boron-containing compound represented by (formula 3) so that the molar ratio between the compound of (formula 2) and the compound of (formula 3) [(the number of moles of the compound of (formula 3))/(the number of moles of the compound of (formula 2))] is 0.1 to 4:



wherein B is a boron atom;  $\text{Z}_4$ ,  $\text{Z}_5$  and  $\text{Z}_6$  are independently an organic group having an acryloyl or methacryloyl group, or a hydrocarbon group of 1 to 10 carbon atoms, provided that at least one of  $\text{Z}_4$ ,  $\text{Z}_5$  and  $\text{Z}_6$  is an organic group having an acryloyl or methacryloyl group;  $\text{R}_1$ ,  $\text{R}_2$  and  $\text{R}_3$  are independently a hydrocarbon group of 1 to 10 carbon atoms; AOs are independently an oxyalkylene group of 1 to 6 carbon atoms and are of one or more kinds; and  $p$ ,  $q$ ,  $r$ ,  $\alpha$ ,  $\beta$  and  $\gamma$  are independently an average

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number of moles of the oxyalkylene group(s) added of less than 4 and more than 0, provided that each of the sum  $p + q + r$  and the sum  $\alpha + \beta + \gamma$  is 1 or more.

6. (Original) An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 4.

7. (Original) An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 5.

8. (Original) An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 4 and at least one electrolytic salt.

9. (Original) An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 5 and at least one electrolytic salt.

10. (Withdrawn) An ion-conductive polyelectrolyte for electrochemical device according to claim 3, wherein said electrolytic salt is selected from the group consisting of  $\text{LiPF}_6$ ,  $\text{LiN}(\text{CF}_3\text{SO}_2)_2$ ,  $\text{LiClO}_4$ ,  $\text{LiBF}_4$ ,  $\text{LiAsF}_6$ ,  $\text{LiI}$ ,  $\text{LiBr}$ ,  $\text{LiSCN}$ ,  $\text{Li}_2\text{B}_{10}\text{Cl}_{10}$  and  $\text{LiCF}_3\text{CO}_2$ .

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11. (Original) An ion-conductive polyelectrolyte for electrochemical device according to claim 7, wherein said electrolytic salt is selected from the group consisting of  $\text{LiPF}_6$ ,  $\text{LiN}(\text{CF}_3\text{SO}_2)_2$ ,  $\text{LiClO}_4$ ,  $\text{LiBF}_4$ ,  $\text{LiAsF}_6$ ,  $\text{LiI}$ ,  $\text{LiBr}$ ,  $\text{LiSCN}$ ,  $\text{Li}_2\text{B}_{10}\text{Cl}_{10}$  and  $\text{LiCF}_3\text{CO}_2$ .

12. (New) The polymerizable composition according to claim 4, wherein the oxyalkylene groups have 2 to 4 carbon atoms.

13. (New) The polymerizable composition according to claim 4, wherein said molar ratio between the compound of (formula 2) and the compound of (formula 3) is 0.5 to 4.

14. (New) The ion-conductive polyelectrolyte for electrochemical device according to claim 8, wherein a molar ratio of the number of moles of the electrolytic salt to the total number of moles of ether oxygen atoms in the oxyalkylene groups is in a range of 0.0001 to 1.